User Manual V. 2.6.24

Please read carefully before using this product.

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1. Liability

Please read the follow liability information:

1.1 This product was designed to assist you when driving safely and record the journey's data for driver reference.

1.2 This product is not guaranteed to record information on every accident.
- A minor force will not trigger the G-Force sensor to activate an Event recording. Therefore the driver must use the Manual Record Button located on the device itself to create an Event Recording.

1.3 This product requires a certain level of maintenance to ensure optimal performance. The manufacturer limits any and all liability for loss or unrecorded data.

1.4 This product is not liable for any data lost caused by physical damage to the product or its accessories.

1.5 The manufacturer has no liability for any injury or damage to property associated with the use of this product.

1.6 The manufacturer limits any and all liability to the exclusive remedies of product repair or replacement at the manufacturer's discretion, to the fullest extent permitted by law.

2. Camera Precautions

Please read the camera precaution information below:

2.1 Do not open/fix/alter this device. Any customer alterations will void the warranty.

2.2 Do not use any accessories other than those provided with the product. The use of any additional accessories will void the product warranty.

2.3 Do not connect the device directly to car's battery. Connecting the device directly to the car battery will void the product warranty.

2.4 Use this product only under the recommended power guidelines. Using this product with alternative power will void the product warranty and could result in a fire.

2.5 Remove the plastic film and any substance from the lens. Any obstruction may affect and degrade the quality of recording.

2.6 Do not expose this product to extreme temperatures (high or low). This product will be damaged if it is exposed outside recommended working temperature.

2.7 Do not operate product while driving. Only operate in safe environments.

Continued...

2. Camera Precautions

Continued...

2.8 Check the product regularly to ensure that the camera lens angle is properly adjusted. Always check when replacing the camera into the bracket. After violent force is applied to the vehicle or product, the camera angle may be altered resulting in poor picture quality.

2.9 Do not place the camera where its obstructs the drivers view of the road.

2.10 Don't not place the camera within the window wiper area. Placing the camera inside the wiper area could void inspections and regulations.

2.11 Do not spray automobile cleaning products directly on product. Product will be damaged if directly exposed to cleaning products.

2.12 Only install this product within the recommended installation area.
This could result in poor GPS reception. Vehicles with fully heated front window or with metal elements will prevent GPS connection to the camera. Therefore, the camera will record without GPS data. Vehicles with these elements will require a Novus HD camera to record GPS data.

2.13 If the product is physically damaged during a fatal accidents, data may not be recorded.

3. SD Card Precautions

IMPORTANT: Format the SD card at least once every 2-4 weeks for optimal performance. (See page 16 for How to Format a SD Card)

3.1 Check SD card's data regularly to ensure the camera is recording correctly.

3.2 Backup the data regularly if any data needs to be saved for future reference or as evidence. Wanted data may get recorded over with new data if the data is not backed up. Data may be lost due to corruption caused by the SD card if not formatted as recommended.

3.3 SD card should be replaced once it reaches the end of its product life . Warranty of the SD card is 6 months. When used daily during long journeys, the card's writing speed decreases after 6 months. Using expired or unformatted cards may result in the camera to malfunction and the camera may notl be unable to record data.

3.4 SD Card Class 10 Rating. Class 10 SD cards are highly recommended for optimal performance and reliability. Using a lower class may prevent the camera to record data.

3.5 Only use SD card from the manufacturer. The camera may not function correctly if un-tested SD cards are used.

3.6 Do not remove SD card during product operation or while power is on. The camera or SD card could be damaged.

3.7 Do not open/fix/modify SD card. The camera could be damaged and the warranty does not cover such damage.

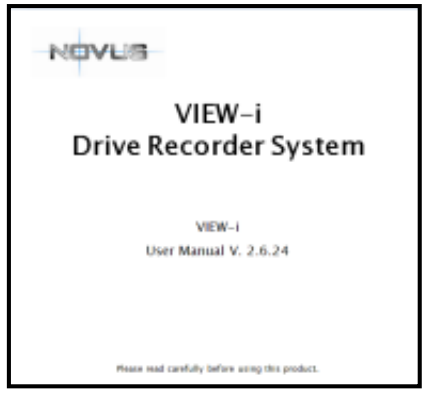
4. Product Package

Please confirm below package list in the box

Pro Silver Camera

OR

SSL Silver Camera



User Manual

Wire Clip x 4

Cradle &
Double Side Tape

Cigar jack
Power Cable

SD Card
(Contains VIEW-i PC Player
and PDF User Manual)

Key x 1
(SSL models only)

Infrared Module
(Ruby models only)

Product specification and package may change for product enhancement without any notification in advance.

5. Plug & Play – Quick Start Guide

WARNING! When installing the camera and PC Player for the first time, the following steps MUST be performed with the 2GB SD card supplied with your Novus product. If installing with a larger card, SD card must be formatted before use (see page 16) Ensure the camera has completely turned off during all movements of the SD Card.

Step 1 – Installing the Camera

5.1 Insert the SD card into slot on side of the camera.

5.2 Remove one of the plastic covers from the sticky pad and firmly place it on the flat side of the mounting bracket.

5.3 Slide the camera into the bracket until it securely clicks into place.

5.4 Clean the window surface area behind the rear view mirror, left hand side on the passengers side.

If using a Ruby camera, ensure the camera is positioned to allow clear view from the internal lens. Do not position where the camera obstructs the drivers view of the road or within the wiper area.

Continued...

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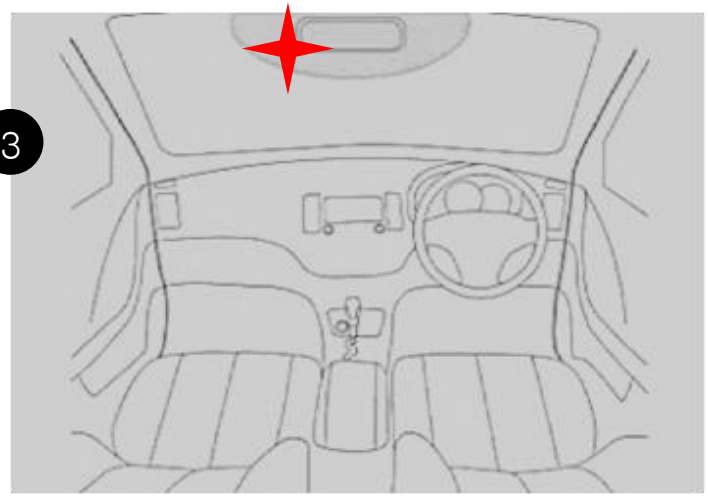

5. Quick Start Guide – Setting Up the Camera

Continued...

5.5 Remove the second plastic cover from the sticky pad.

5.6 Carefully position and firmly place the camera on the window.

5.7 Insert power adaptor into Power port and insert cigarette adaptor into cigarette socket

5.8 Turn the camera on by power switch, top left hand side of camera.

5.9 Angle the lens to allow clear view of the road ahead.

5.10 Ensure all plastic covers are removed from the lens.

5.11 Organise the cables using the cable clips provided.

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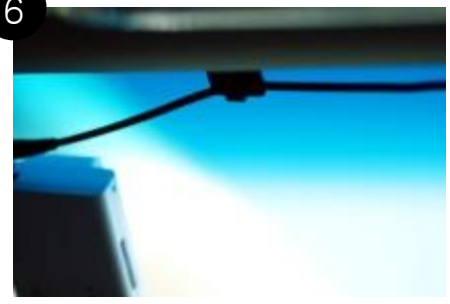


Installing the Infrared Module (Ruby models only)

5.12 Remove the plastic cover from the sticky pad on the module.

5.13 Firmly place the module at the bottom of the camera with the lights facing inside the vehicle.

5.14 Insert power adaptor in to Power port in the module on the left hand side.

5.15 Organise the cables using the cable clips provided.

5. Quick Start Guide - Setting Up GPS

Step 2 – Setting Up GPS Connection

Important: For the initial GPS lock on, the camera must be powered for approx 20 minutes. The vehicle must be in an open clear area. Not inside a garage or an area where GPS connection will be affected. A flashing blue light indicates camera is recording without GPS data. Constant blue light indicates the camera the is recording with GPS data. (See page 44 for Buzzer/LED Alert Warnings)

Note: GPS is unable to connect to the satellite in vehicles fitted with fully heated windows or metal trims around the front window. Vehicles with these elements must use the HD models or Topaz camera to record GPS data.

5.16 Insert power adaptor into the camera power port and insert cigar adaptor into the car cigar socket.

5.17 Turn the vehicle engine on and turn the power switch on, top left hand side of the camera.

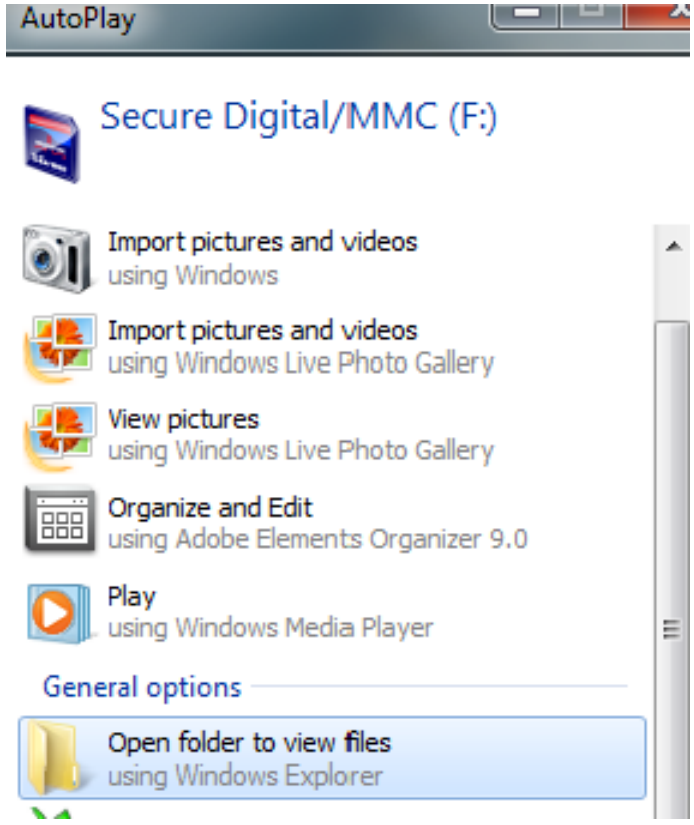
5.18 Leave the camera powered on until blue light is on constantly to indicate GPS is locked on. Initial connection could take approx 20 minutes.

5.19 Once the camera has locked onto GPS, turn the vehicle engine off and safely remove the SD card once the camera has completely shut down.

Important; After setting up the camera and GPS for the first time, install the PC Player onto a PC and set Date and Time through the Settings button on the software. Follow the next steps to complete installation.

5. Quick Start Guide – Installing the PC Player

Step 3 – Installing the Novus PC Player



5.20 Safely remove the 2GB SD card from the camera and insert the card into the SD card slot in a PC or laptop.

5.21 If **AutoPlay** box opens, double click on Open Folder To View Files.

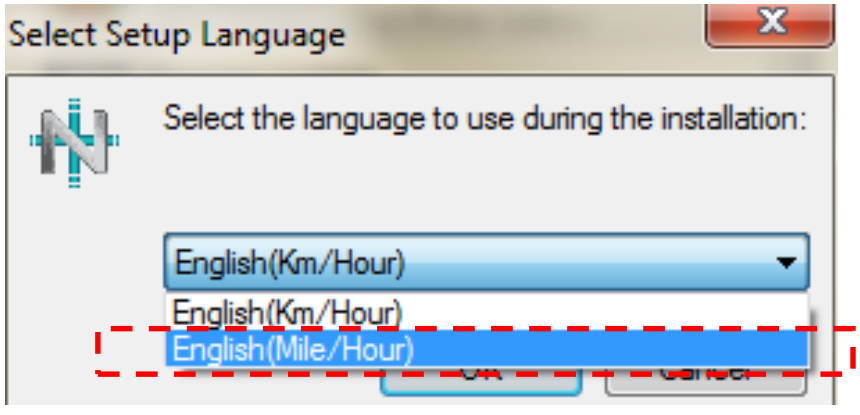
If not, left click **Start – Computer** then double click on the SD card drive.

5.22 Double click on relevant player:

Pro/SSL Silver player – **NOVUS BLACKBOX 1SCE.SETUP**
Pro/SSL Ruby player – **NOVUS BLACKBOX 2SCE.SETUP**

5.23 Left click Run.

5.24 Ensure the Language is set to – **English(Mile/Hour)** by left clicking on the small arrow on the right.



Continued...

5. Quick Start Guide – Installing the PC Player

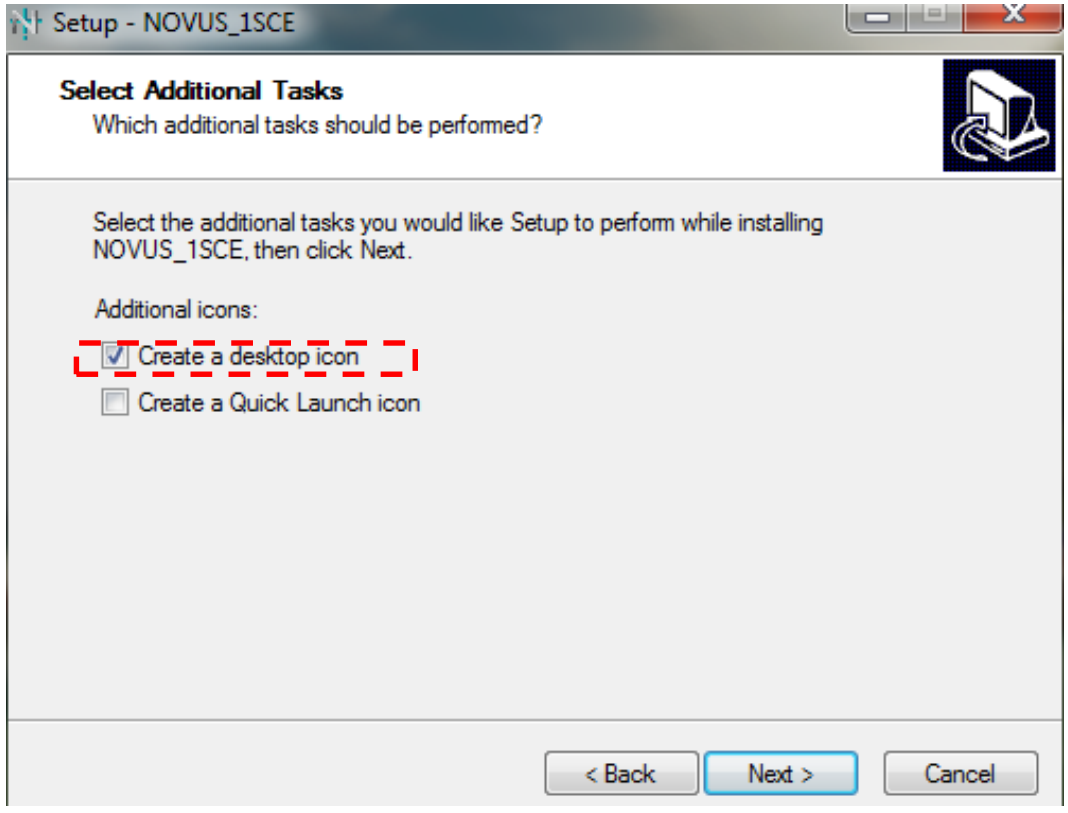
Continued...

5.25 Left click Next on the Wizard Setup.

5.26 Left click Next again.

5.27 Left click on box next to the **Create a Desktop Icon** if not already ticked, then left click Next.

5.28 Left click Install then Finish.


Setup - NOVUS_1SCE
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing NOVUS_1SCE, then click Next.
Additional icons:
Create a desktop icon
Create a Quick Launch icon
< Back
Next >
Cancel

The PC Player will automatically pop up. If not, close the Wizard Setup window by left click on the X button in top right hand corner and any other windows still open.

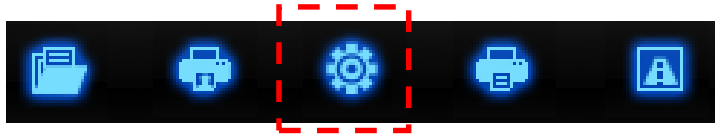
Password

5.29 The password is 0000. If you are using Windows Vista, leave the entry blank and click Enter.

5. Quick Start Guide – Set Time and Date

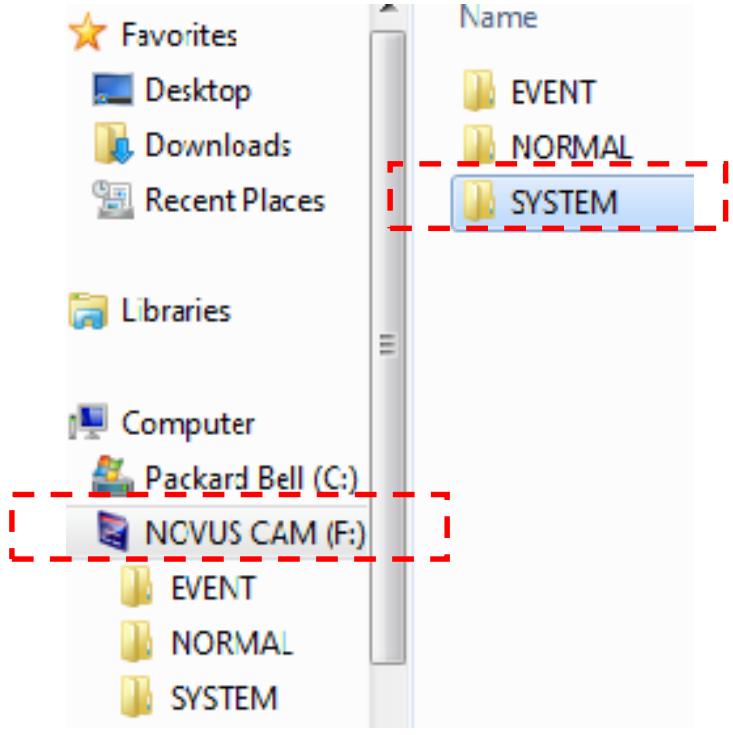
Step 4 – Set Time and Date on the PC Player

5.30 Left click on the **Settings** button, bottom right hand corner of player.



5.31 The Open box will appear. Double click on the SD card drive.

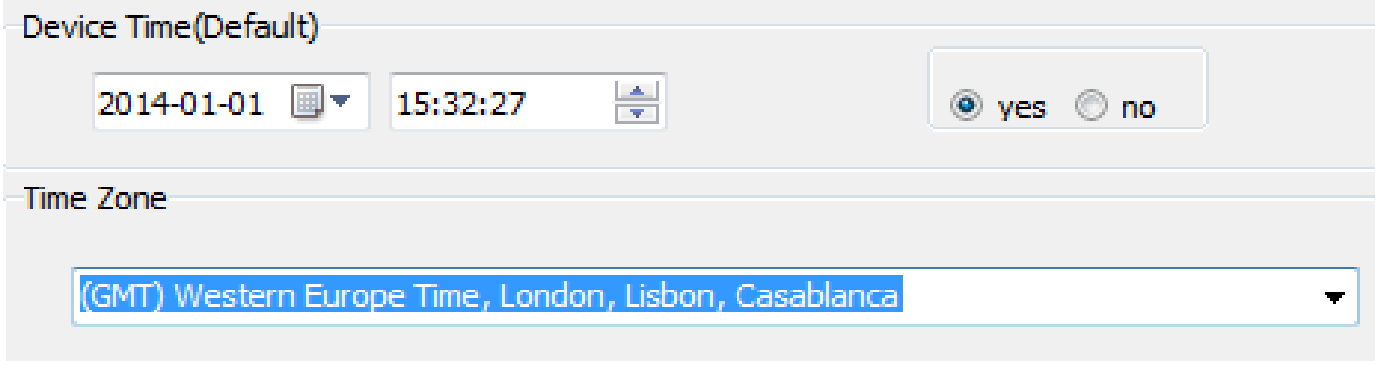
5.32 Double click on **System folder**.



5.33 Double click on User Setup.CFG folder, the Setting box will appear.

5.34 In the Device Time section, click Yes to edit the time and date.

5.35 Set Time Zone to: (GMT) Western Europe Time, London, Lisbon..



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5. Quick Start Guide - Set Time and Date

Continued..

5.36 To save the changes, left click Apply and repeat step.5.31 – 5.33 then click Save

5.37 Left click the red cross in top right hand corner of player to close the Player.

5.38 Safely remove the SD card from the SD card slot in the PC and insert the card into the camera.

5.39 Power the camera for at least 3 minutes to allow changes to be copied to the camera.

5.40 Insert the main SD card into the camera. Ensure it has been formatted before use.

5.41 Check and position the lens correctly.

Quick Plug and Play Installation complete.

Important: Any changes made on the Settings in the software must be saved in the camera by following steps 5.38 and 5.40 to ensure recorded data is more accurate.

Important: If using a larger card for recording, ensure the card has been Formatted correctly before use. Using an unformatted card could prevent the camera to record data or malfunction. See page 16 for How to Formatting SD cards.

6. How To Format SD Cards

Important: Ensure the PC player has been installed from the 2GB SD card to Desktop. Formatting SD cards will delete all data on the card. Data must be backed up onto another device if the data is to be used for future reference.
Recommended – Format SD card at least once every 2–4 weeks for optimal performance.

6.1 Insert the card into a SD card slot in a PC/laptop.

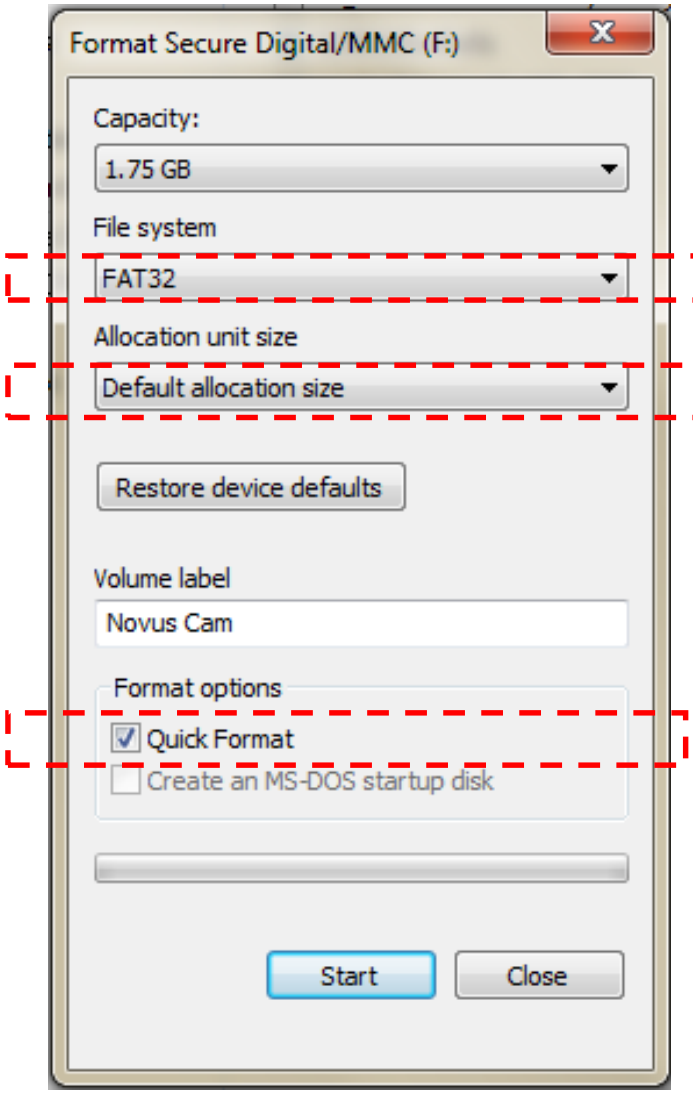
6.2 If the Auto play box automatically appears, left click Open Folder to View Files. If the automated box doesn't appear, left click Start Computer.

6.3 Right click on the SD card slot.

6.4 Left click on Format.

6.5 Ensure the following settings are made:

File System is set to FAT32. If FAT32 has not been Selected when formatted. The camera may be Prevent from recording data.
Allocation Unit Size is set to Default Allocation Size.
Quick Format box is ticked.



6.6 Left click Start.

6.7 Left click Yes to next prompt.

6.8 Left click OK.

6.9 Safely remove the card from slot.

Once formatting is complete you can insert the card back into the camera and continue as normal.

7. View Recordings Saved on SD Cards

How to Watch Footage Saved on the SD Card

Important: The Novus View-I PC Player must be installed to Desktop to watch any recorded data. If the PC Player has not been installed, see page 12, Installing the PC Player.

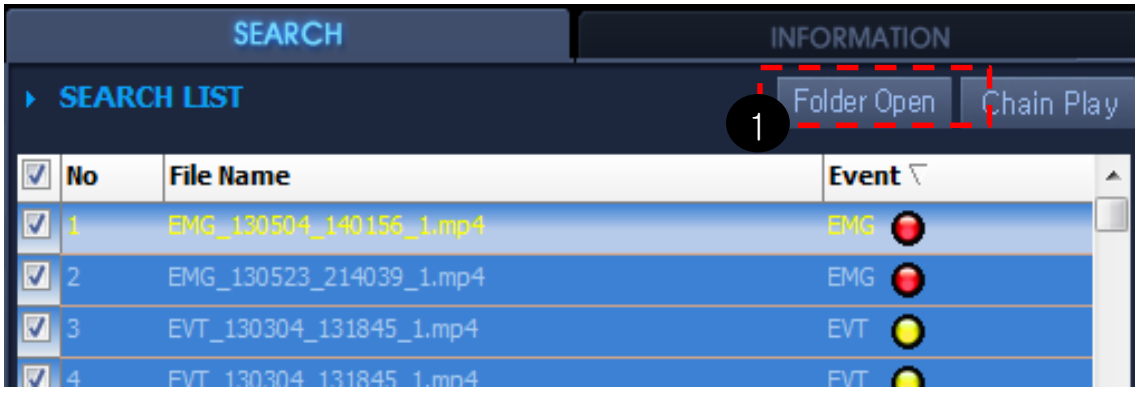
7.1 Insert the SD card into the SD card slot.

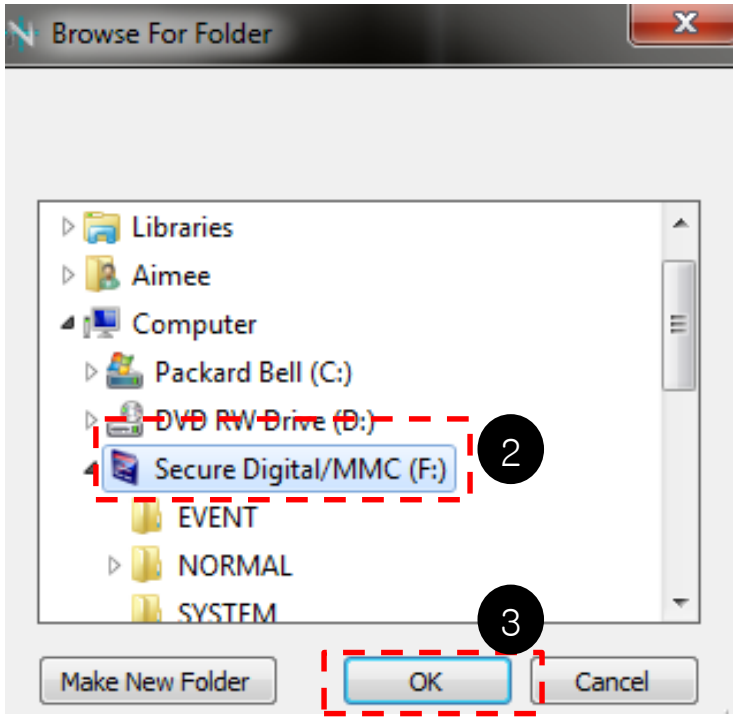
Silver player icon

Ruby player icon

7.2 Double click on the Novus Icon on Desktop and enter password.
(See page 13 for Password information)

7.3 Left click on **Folder Open** button.
(Pro/SSL Silver players – top right hand corner of player.
Pro/SSL Ruby players – underneath Screen 1)





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7. View Recordings Saved on SD Cards

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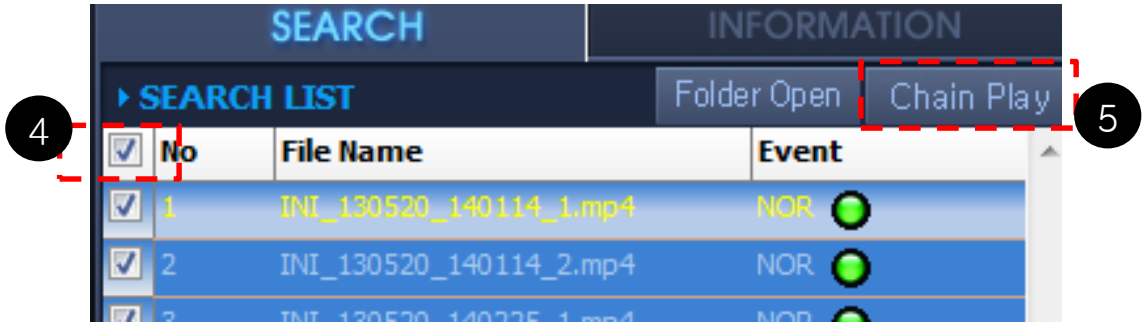
7.4 A list of recordings will appear. To play the recordings the list must be highlighted. Always tick the box in the top left hand side of the list, next to “No”, to highlight the recordings.



7.5 Left click Chain Play or double click on a desired clip to play. Emergency clips(EMG) will be listed at the top followed by Event clips(EVT) then Normal clips(INI).

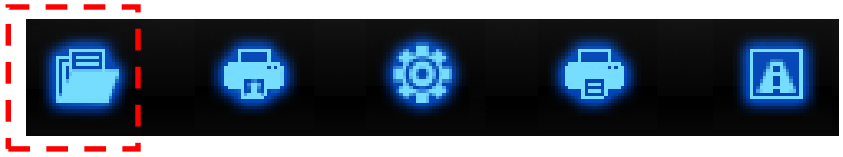
7.6 To get back to the list of recordings, left click on Search button above the list of recordings.

8. View Recordings Received by Email

How to Watch Footage Saved on an Email or Single Files.

8.1 Left click on the attachment on the email and save the clip into a folder on the Desktop.

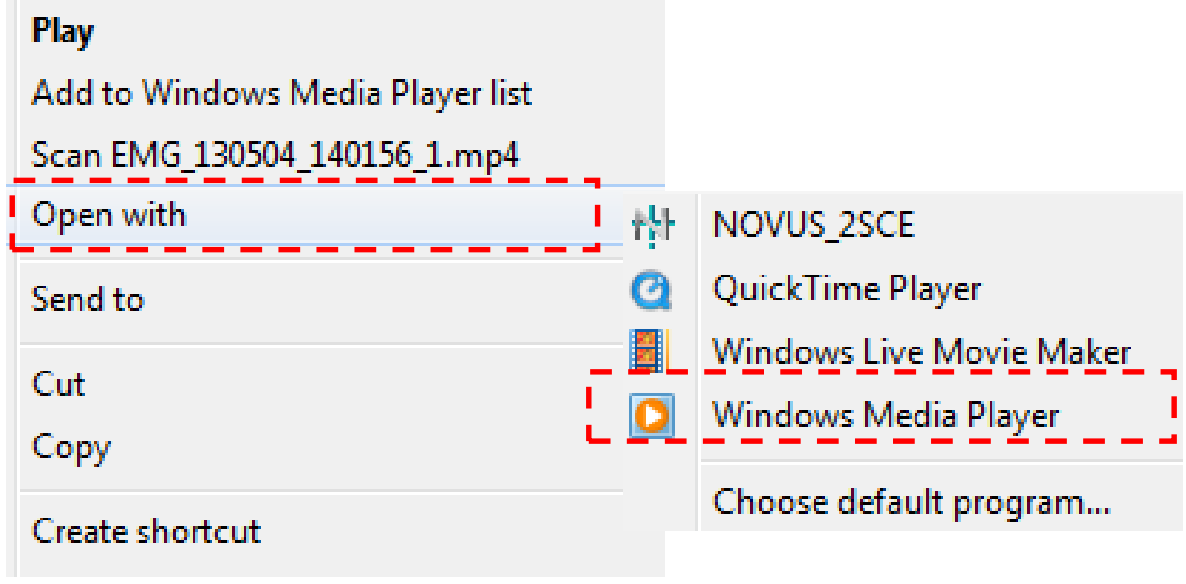
8.2 Open the PC player and click on the **Open File** button.



8.3 Locate the folder saved on Desktop.

8.4 Double click on the file to upload it onto the Screen List.

8.5 Tick the box to highlight the files and click Chain Play.



If the clips has been transferred by Novus:

8.6 Right click on the file, hover the mouse on **Open With**, left click on **Windows Media Player.** The clip will start playing.

To apply for a copy of the PC Player, please log onto www.novuauto.com and create an account.

9. Send Recordings by Email

How to Send an Incident by Email.

Important: Novus camera encrypts each recorded clip which fully protects the data. Encrypted data can only be replayed through the dedicated PC Player. Clips will not be able to be replayed through other players, such as, Windows Media Player, Real Player..

Contact Novus to request your incident to be transferred to allow instant reply via Windows Media Player. This will help pass all evidence as shown on the player to the authority and allow immediate access to the evidence.

Contact Novus on 03333 23 03 08 or email: admin@novusauto.com

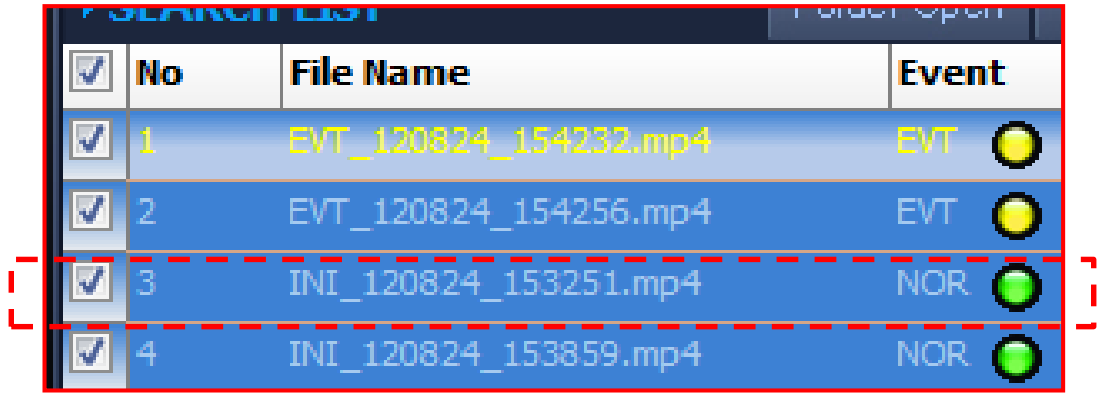
To send clips of an incident, follow the below steps.

9.1 Make note of the File Names of the clips required.

9.2 Close the PC Player.

9.3 Open a new email.

9.4 Add an attachment to the email.



9.5 Double click on the SD Card Drive.

Continued...

9. Send Recordings by Email

Continued...

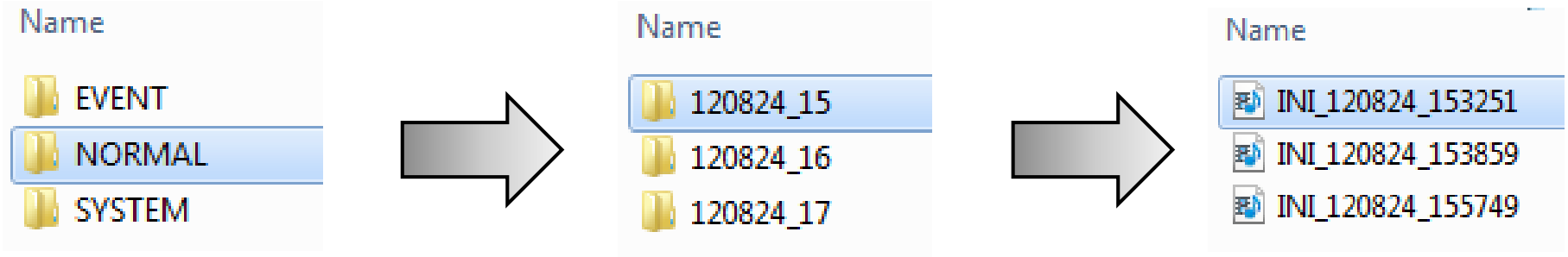
9.6 Locate the required clips in the folders by the File Names.

- Clips starting with EVT or EMG are saved in the Event folder.
- Clips starting with INI are saved in the Normal folder.

- First set of numbers represent the date the clips was recorded (American format) – 120824 = 2012/Aug/24th

- Second set of numbers represent the time the clips was recorded (24 hour Format) – 153251 = 3pm:32mins:51secs

E.g. The above clip can be located in the Normal folder, 120824_15 folder.



9.7 Double click on the individual clips to attach to the email.
9.8 Click Send to send clips via email.

Note: Due to the size of memory of each clip, limited amount of clips can only be attached to each email. Too many clips sent on an email may not be retrieved or could cause the email program to malfunction.

10. Camera Features

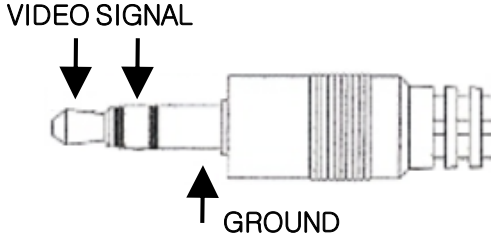
Function	Description
Constant Recording	Records everything when camera is powered on. [NOTE] When the SD card is full of data, the camera deletes the oldest file to make room for new recordings. Therefore, if the user wants to keep the old recordings, the user must backup the recordings before they are automatically deleted.
Event Recording	When the camera detects exceeded force , the camera will automatically save 15 seconds before and 15 seconds after the triggered event. [NOTE] If up to 200 Event files can be saved on a card, when 160 Event files are saved, the camera will make a (beep-beep-beep) sounds to warn the user . If 200 Event files are saved, the camera will make a(tee-lee-lee) sound and will start to delete the oldest recording and replace it with a new clip. Therefore, if user wants to keep old recordings, user must backup the recordings before they are automatically deleted.
Audio Recording	Supports audio recording with on/off button
JPEG Capture	Supports JPEG capture
GPS Sensor	Internal GPS records time/speed/route information via Google Map GPS information can only be checked through the Novus VIEW-i PC Player. [NOTE] Camera needs to be connected to satellites for GPS data to be recorded.
G-Sensor	Internal G-sensor records quick start/stop/curve information. This information can be checked with Novus VIEW-i PC Player .

11. Pro Silver/ Ruby Camera Functions

#	Name	Description
1	Power Port	DC 12V/DC 24V
2	Internal GPS	GPS
3	Front Camera	1.3 mega pixel CMOS lens
4	Power Switch	Device Power on/off switch
5	TV-Out Port	Preview/Replay recorded files to nearest display (NTSC/PAL)
6	Mic Switch	Mic on/off switch
7	Rear Camera	1.3 mega pixel CMOS lens (Ruby Model only)
8	Manual Recording	User can activate Event Recording
9	Memory Format	User can format inserted SD Card
10	Video Replay / JPEG Capture	User can replay recorded videos User can capture JPEG image
11	LED's	Status LED for Power status(red), GPS reception(blue), Mic status(amber) and Recording status
12	SD Cart Slot	SD card slot

TV-OUT port Specification

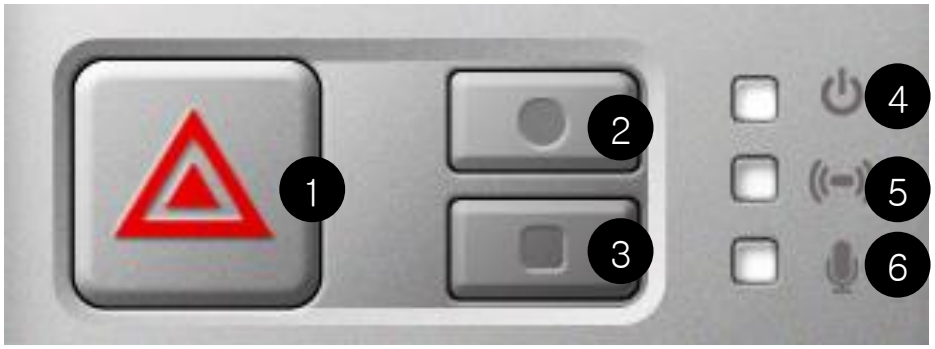
Device : 3.5 pin jack, 2 or 3 pin connector input support



12. SSL Silver/Ruby Camera Features

#	Name	Description
1	Power Port	DC 12V/DC 24V
2	Internal GPS	GPS
3	Front Camera	1.3 mega pixel CMOS lens
4	SD Card Slot	SD card slot
5	Manual Recording	User can activate Event Recording
6	Memory Format	User can format inserted SD Card
7	Video Replay / JPEG Capture	User can replay recorded videos User can capture JPEG image
8	LED	Status LED for Power status(red), GPS reception(blue), Mic status(amber) and Recording Status
9	Rear Camera	1.3 mega pixel CMOS lens (Ruby Model only)
10	Power Switch	Device Power on/off switch
11	Mic Switch	Mic on/off switch
12	Key	Key to unlock the slide
13	IR Module	Infrared Lighting for Internal lens for night time recording (Ruby Model Only)

13. Camera Button Functions



#	Name		Recording Mode
1	Manual Recording Button		Manually start Event recording if button is pressed, camera will make “tic-tic” sound and blue and orange LED will flash quickly. These clips will be saved as an Emergency file.
2	Memory Format Button	Short Press	No function.
		Long Press	Hold for 8 seconds to format SD card, camera will sound a beep. The camera will sound 2 beeps when formatting is complete. Note: All data will be deleted from the card.
3	Video Replay / JPEG Capture	Short Press	JPEG capture
		Long Press	Hold for more than 2 seconds and camera will change to Replay Mode
4	Power LED		Red LED, Displays Power On/Off Status
5	GPS LED		Blue LED, Displays steady blue when GPS data is recording. Flashing blue when GPS data is not recording.
6	Mic LED		Amber LED, Displays Mic On/Off Status

14. Software Features

Features	Description
VIEW-i PC Player	Software to view recordings. View GPS data, generate reports can be done through the dedicated player.
Google Map Sync	View driver's route via Google Map through the PC Player. [NOTE] GPS needs to be connected to the satellites in order to sync data with Google Maps. Internet connection on the PC required to view Google map.
G-Sensor Graph	View G-force impact data.
ECO-Drive Report	Driver's driving patterns can be checked and documented in reports. Recorded data can give an overall score on how good or bad a driver is. Reports will coach drivers to develop safer driving habits [NOTE] Functions are limited for non-GPS products.
Event Report	Creates reference report detailing the accident which may be helpful to police or insurance company's investigations. [NOTE] Functions are limited for non-GPS products.
CRASH GUARD™	CRASH GUARD™ system is provided inside VIEW-i PC Player. Player can recover corrupted data occurred if SD card has been ejected before fully powering down. [NOTE] CRASH GUARD™ cannot repair any data if SD card's file system was damaged or SD card was physically damaged. Results will vary.

15. PC Requirements

System Requirement

Novus software automatically encrypts recorded data. To view recorded data, the data must be replayed through the dedicated Novus PC players.

Item	Description
Operating System	Window XP, Windows Vista, Windows 7 & 8, (English version)
CPU	Pentium 4 / 1.8Ghz Processor or above
RAM	More than 512MB
Free HDD Space	More than 200MB
Display	More than 1024 x 768 pixels

* Check http://www.novusauto.com for latest Novus VIEW-i PC Player updates.

16. PC Player Password Settings

Password Settings

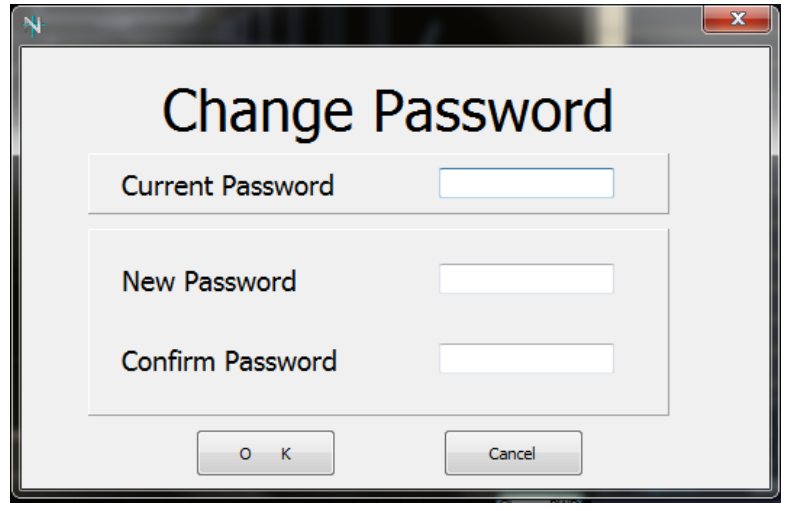
In order to protect the recorded data being accessed by an unauthorised user, the NOVUS VIEW-i PC Player has a password protection function. To enter and change passwords, please follow the below.

16.1 When entering the NOVUS VIEW-i PC Player for the first time, input 4 zero's (0000) Depending on operating system, leave the entry blank and click OK.

16.2 To change your password, click on the Change Password button.

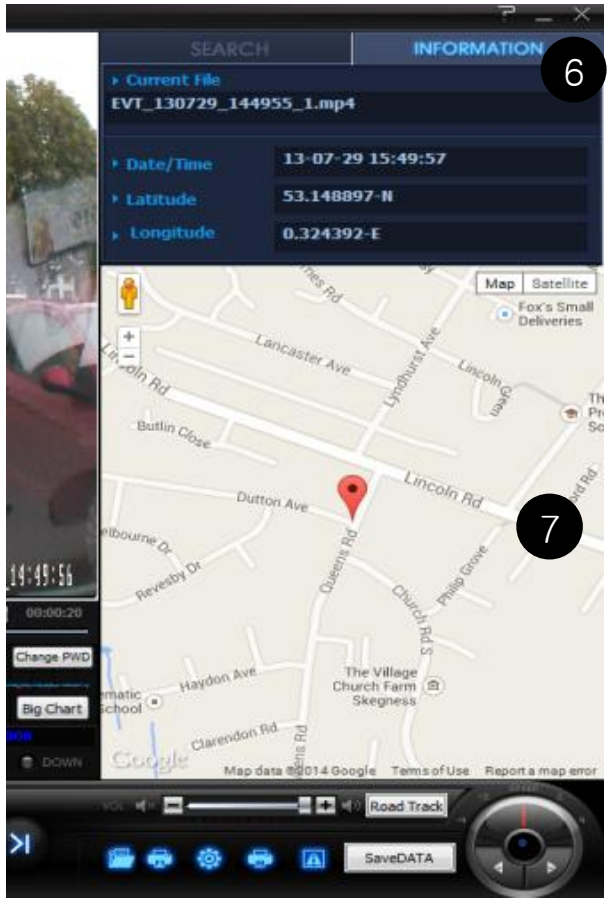
16.3. When new window appears, input Current / New / Confirm Password info and click "OK" button to change password.

16.4 If the password has been forgotten, uninstall and reinstall the PC player.



17. Pro / SSL Silver Playback Screen

Single Channel Playback Screen



#	Name	Description
1	Front Video Screen	Front video play screen of designated video file
2	G-Sensor Graph	G-sensor data of video screen for user analysis
3	Speed-o-meter	Shows vehicle speed.
4	File List	List of recorded files.
5	Search Engine	Search for specific clips with certain criteria
6	File Information	Displays file name, time and date, longitude and latitude.
7	Google Map	Displays current position on Google map (Internet connection required)

18. Pro / SSL Ruby Playback Screen

Dual Channel PC Player Playback Screen

#	Name	Description
1	Front Video Screen	Front video play screen of designated video file
2	Rear Video Screen	Rear video play screen of selected front video file
3	File List	List of recorded files.
4	Speed-o-Meter	Shows vehicle speed.
5	Search Engine	Search for specific clips with certain criteria
6	File Information	Displays file name, time and date, longitude and latitude.
7	G-Sensor Graph	G-sensor data of video screen for user analysis
8	Google Map	Displays current position of the video on Goggle Maps (Internet connection required)

19. PC Player Button Functions

Buttons Functions on Silver and Ruby Software

Button	Description	Button	Description
	Previous File		Open 1 file
	Rewind		Print Screen
	Play		Settings
	Pause		ECO-Drive Report
	Stop		Event Report
	Fast-forward		Controls speed of playback.
	Next File		

Volume Control : Video volume control with mute function

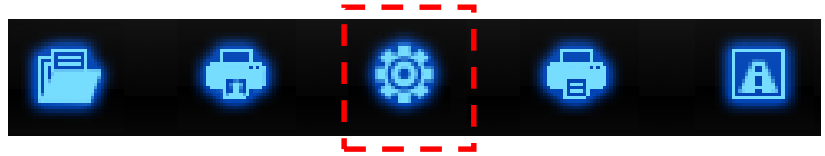
20. PC Player and Camera Settings

Open /Change Player and Camera Settings

Important: Check/set the Time and Date Settings during initial install to ensure recorded data is accurate. Any changes made on the Settings in the software must be saved in the camera. Ensure the SD card is inserted into the camera after changes have been made and power the camera for at least 3 minutes.

20.1 Double click on the Novus icon on the Desktop to open the PC Player.

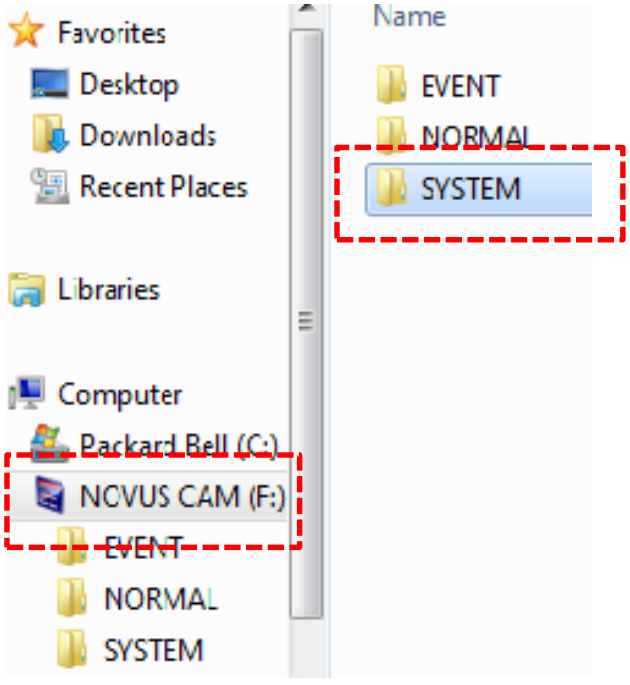
20.2 Left click on the Settings button, bottom right hand corner of player.

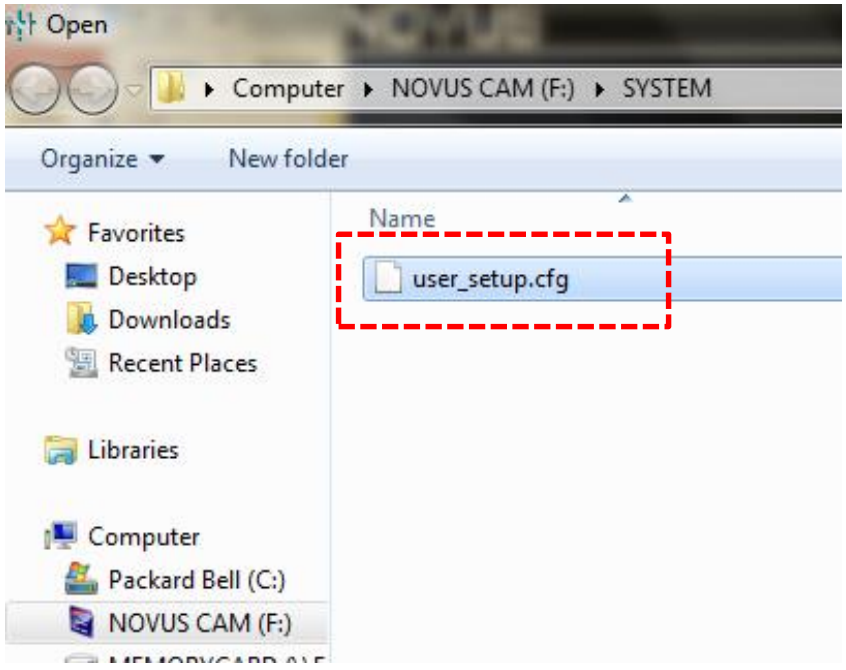


20.3 Double click on the SD card drive.

20.4 Double click on System folder.

20.5 Double click on User Setup.CFG folder, the Setting box will appear.





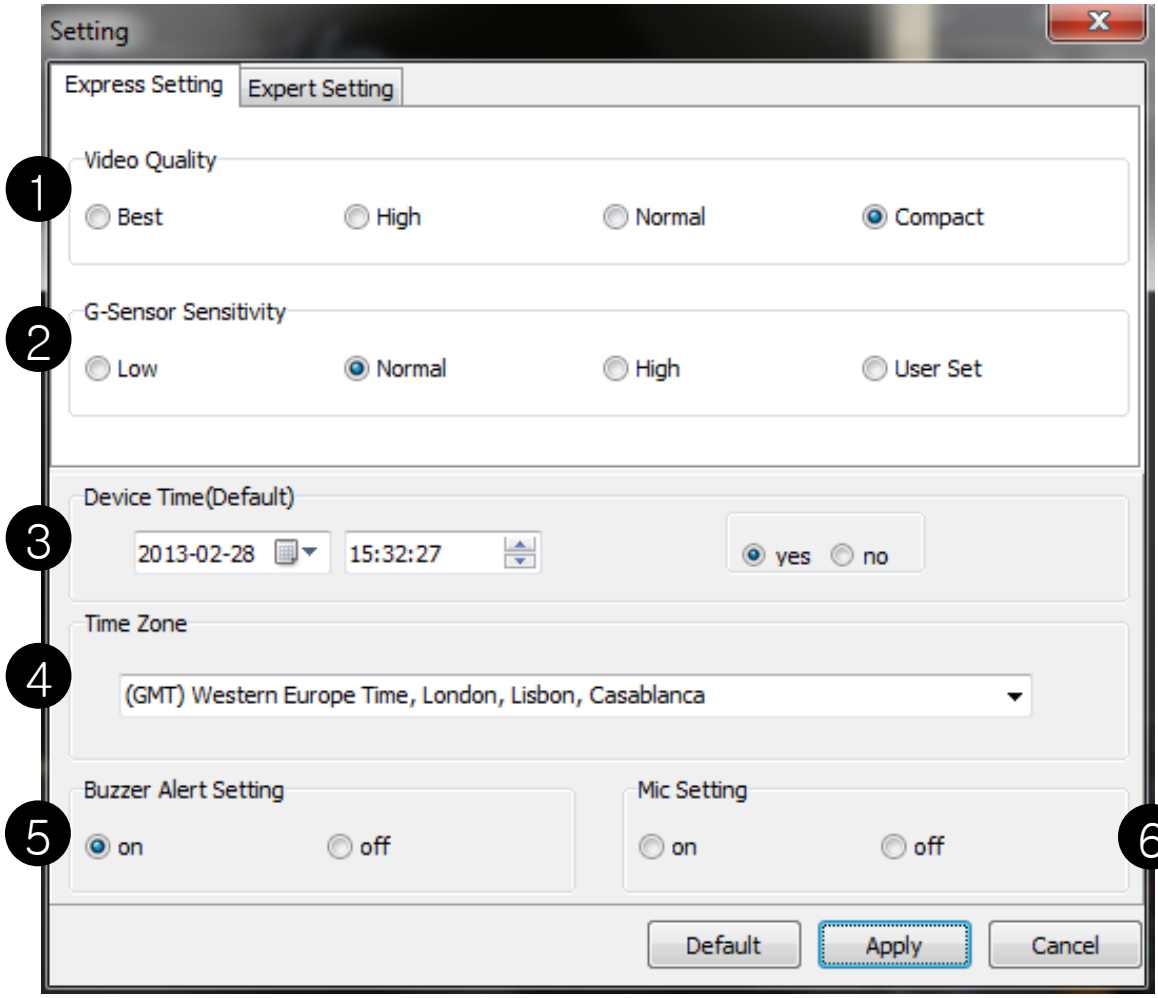
20. PC Player Settings - Express

Express Settings

Adjust camera and PC Player settings.

Important: Any adjustments made must be saved on the SD card and camera.
(See page 15 for more information)

Click “Apply” button and re-insert SD Card to the device to save the changes

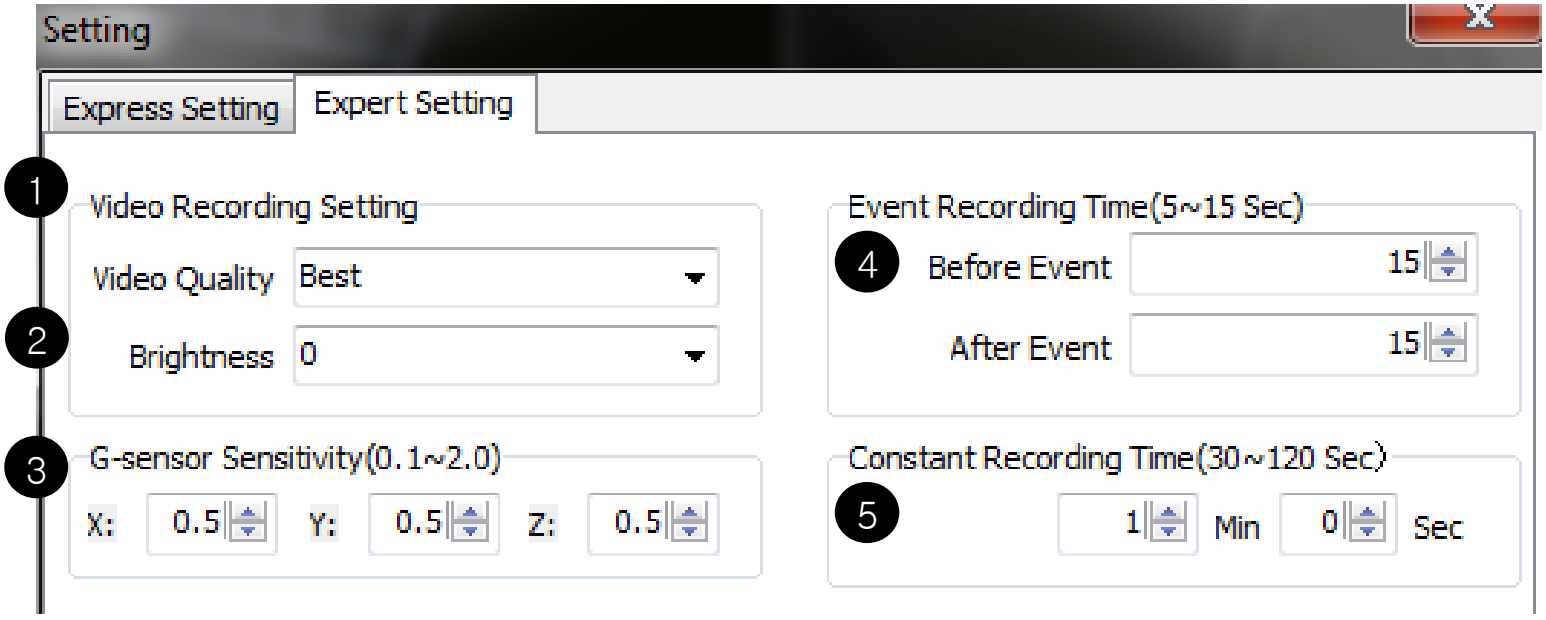


#	Name	Description
1	Video Quality	Higher the quality settings will use more memory
2	G-Sensor Sensitivity	G-Sensor sensitivity select (Low = sensitive / High = Dull)
3	Device Time	Set Date and Time
4	Time Zone	Set location of user
5	Buzzer Alert Setting	Turn audio alert sounds Off/On
6	Mic Setting	Turn audio recording Off/On

20. PC Player Settings - Expert

Expert Settings

Only use Expert setting if you are an advanced user.



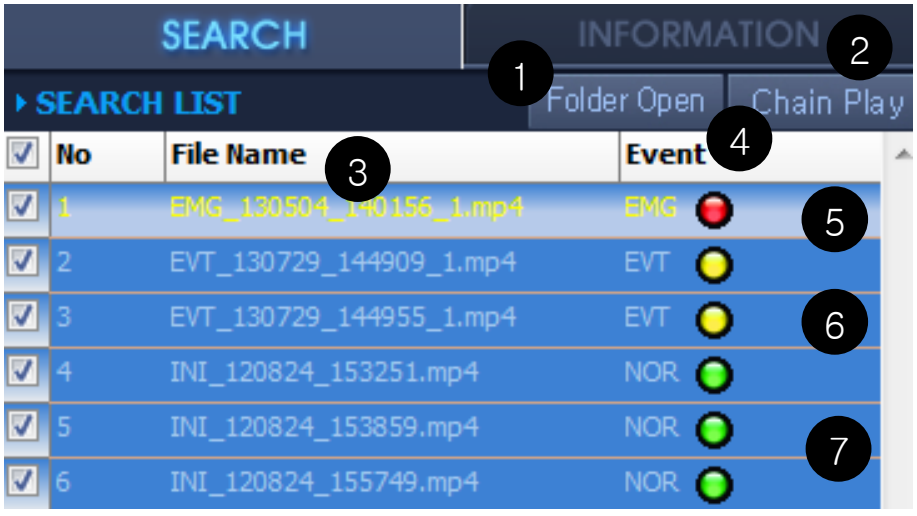
Click “Apply” button and re-insert SD Card to the device to save the changes

#	Name	Description
1	Video Quality	Best: 1.3M@VGA 17fps / Good: 1.3M@VGA 20fps Normal: 0.3M@VGA 30fps / Compact: 0.3M@QVGA17fps
2	Brightness	(Dark)-4 ~ +4(Bright)
3	G-Sensor Sensitivity	0.1~2.0 (Low=sensitive / High=dull)
4	Event Recording Time	0~15 sec for before and after G Sensor has been triggered
5	Constant Recording Time	30sec~2min per clip

21. PC Player – Search List Screen

Search and Play List Screen

The Search List screen is the main navigation screen. Upload data from SD cards, select files to view recordings.



#	Name	Description
1	Folder Open	Open recorded clips on SD card
2	Chain Play	Play button for continual playing of checked listed files
3	File Name	File name consist of date/time of recordings. EVT_090919_201518.mp4 -> EVT or INI : Recording type -> 090919 : 09/09/19 (date) -> 201518 : 20:15:18 (time)
4	Event Type	Displays recording type

#	Name	Description
5	NOR	Constant recording files display as “NOR”
6	EVT	G-Sensor triggered recording files display as “EVT”
7	EMG	Manual button triggered recording files display as “EMG”

22. PC Player – Search Engine

Create and Search Database

The in-built search engine can catagorise the recorded data to allow users search specific criteria such as Speed, G-Senor etc, saving time filtering through hours of data.

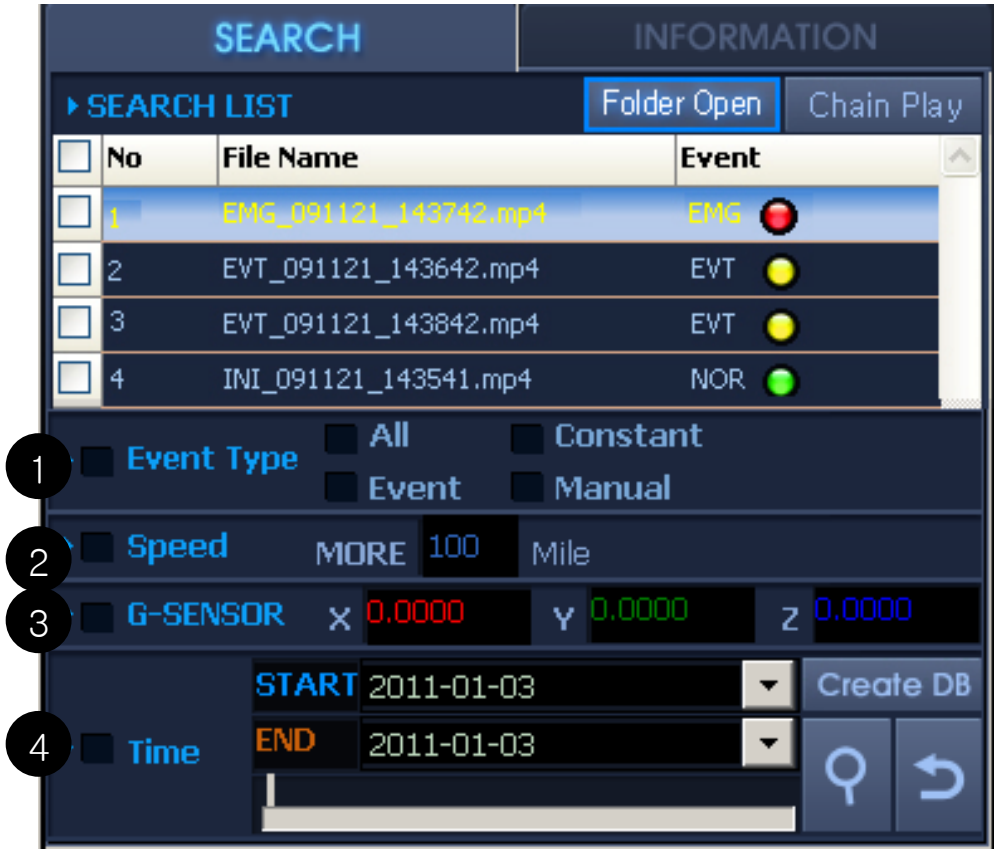
22.1 Import data from the SD card to the Search List screen.
(See page 16, 7.3 and 7.4)

22.2 Click on "**Create DB**".
*Database must be created before searching.

22.3 Set the search criteria and click on the "Magnify glass" button.

22.4 List of matched data will appear in Search List.

22.5 Click on "Chain Play" to play searched file or double click on desired clip.



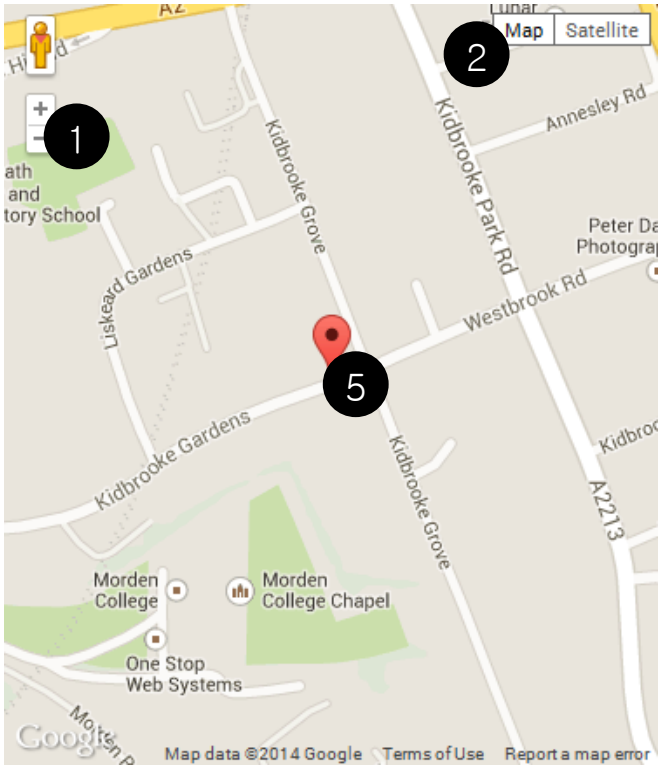
#	Name	Description
1	Event Type	Select recording type to filter videos with selected recording type
2	Speed	Input speed value to filter videos above selected speed value
3	G-Sensor	Input X/Y/Z G-sensor values to filter videos above selected G-sensor value
4	Time	Input time value to filter videos within time section

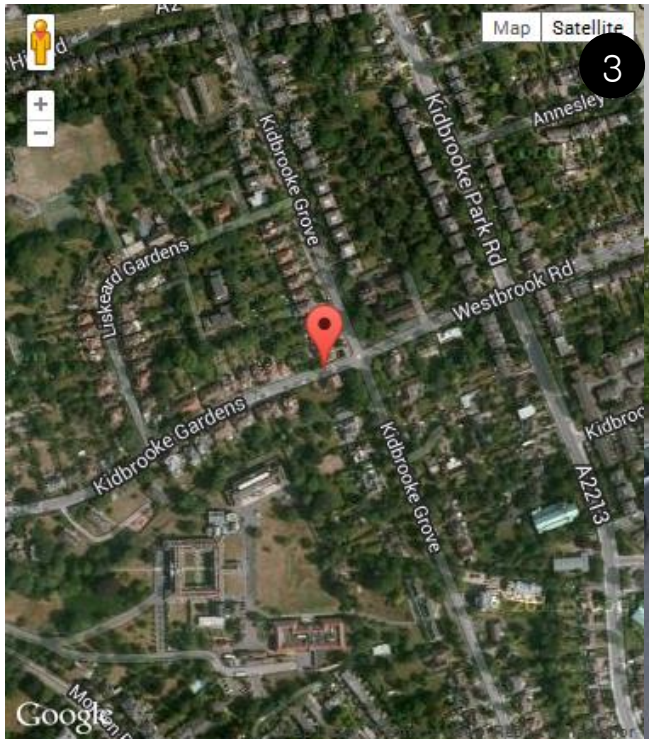
23. PC Player – Google Map

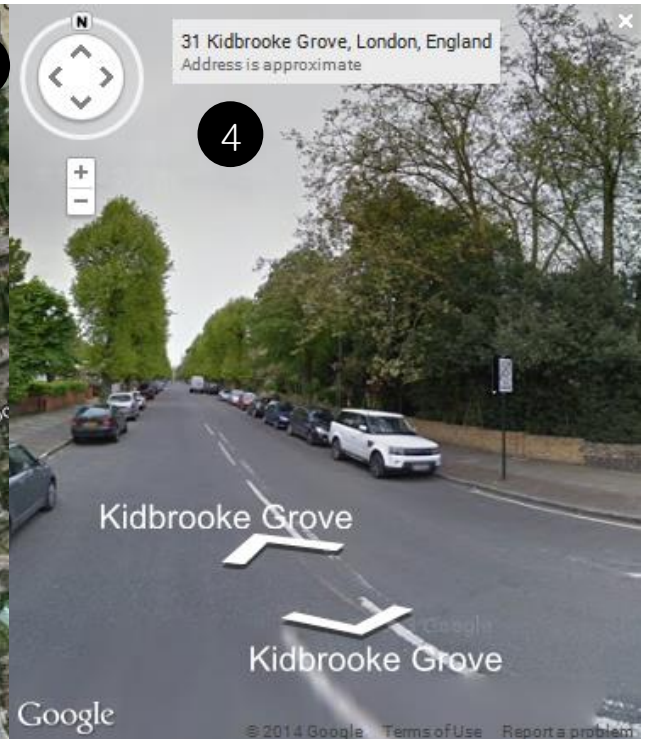
Google Map Interface

The PC Player supports Google Map interface. User must have internet connection to view Google map data.

Number	Description
1	Adjust Map size: + : Zoom in – : Zoom out
2	View Mode: Map
3	View Mode: Satellite
4	View Mode: Street
5	Current Position







24. PC Player – Road Track

Road Track™ Reports

Road Track™ shows the recorded tracking data of the drivers journey.

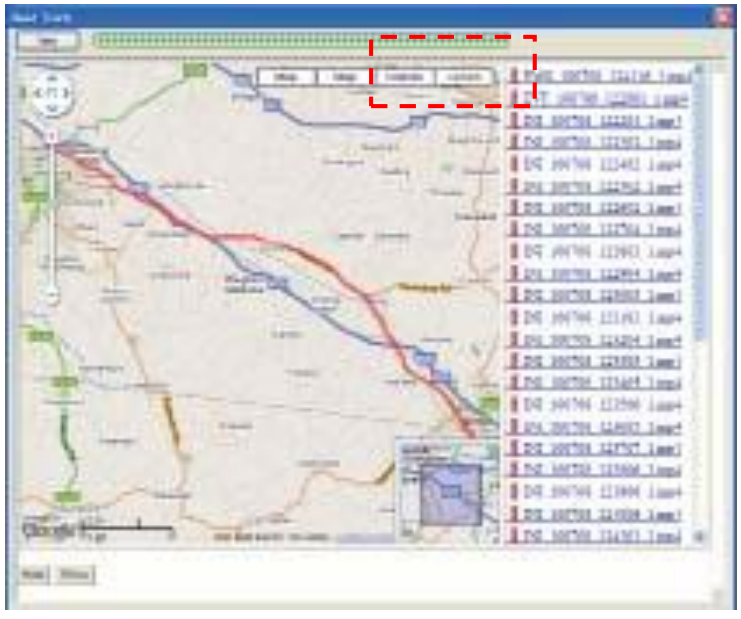
24.1 Import data from the SD card to the Search List screen.
(See page 17, 7.3 and 7.4)

24.2 Left click on Create Database.

24.3 Left click on Road Track.

24.4 A new screen appears, left click View.

24.5 Use Hide button or Show button to display or hide driving route in the Google Map

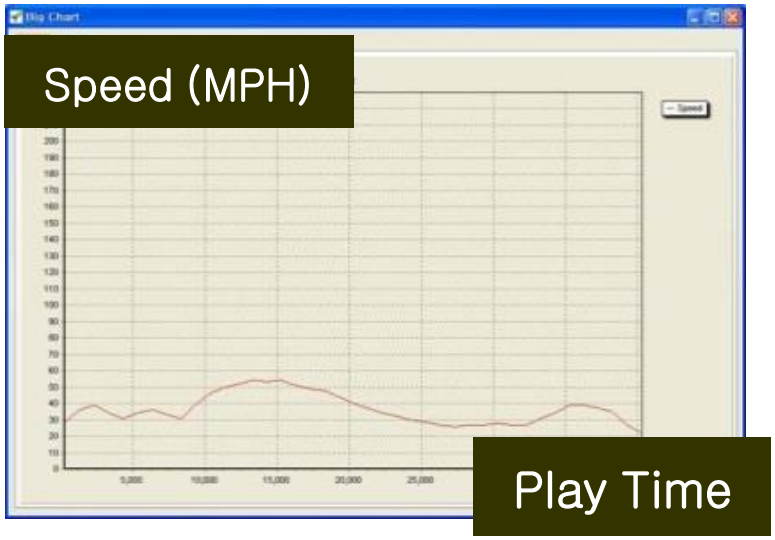


25. PC Player - Speed / G-Sensor

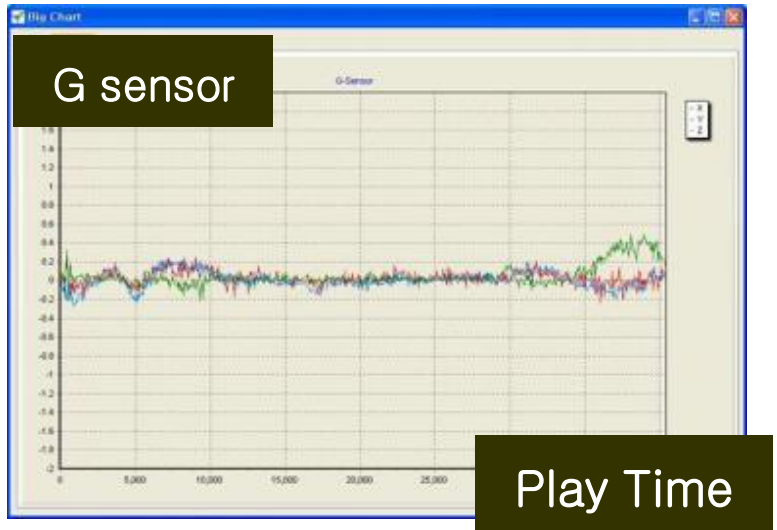
Speed and G-Sensor Reports

Novus PC Player can generate detailed reports of recorded speed and G-Force impact data. These reports can be used for analysing the driver's driving patterns.

25.1 Click on "Big Chart" button in the G sensor screen to display below screens.



Speed



G-Sensor

Axis	Description
X-Axis	Display Vehicle's X axis movement - Quick Start / Quick Stop
Y-Axis	Display Vehicle's Y axis movement - Quick Turns
Z-Axis	Display Vehicle's Z axis movement - Up/down movement

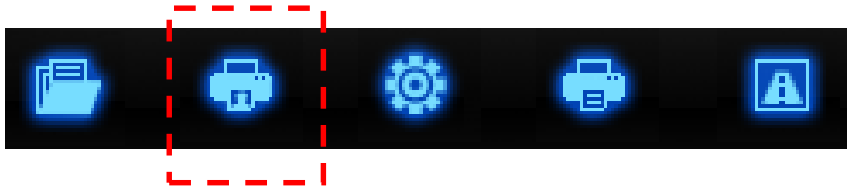
26. PC Player – Screen Capture

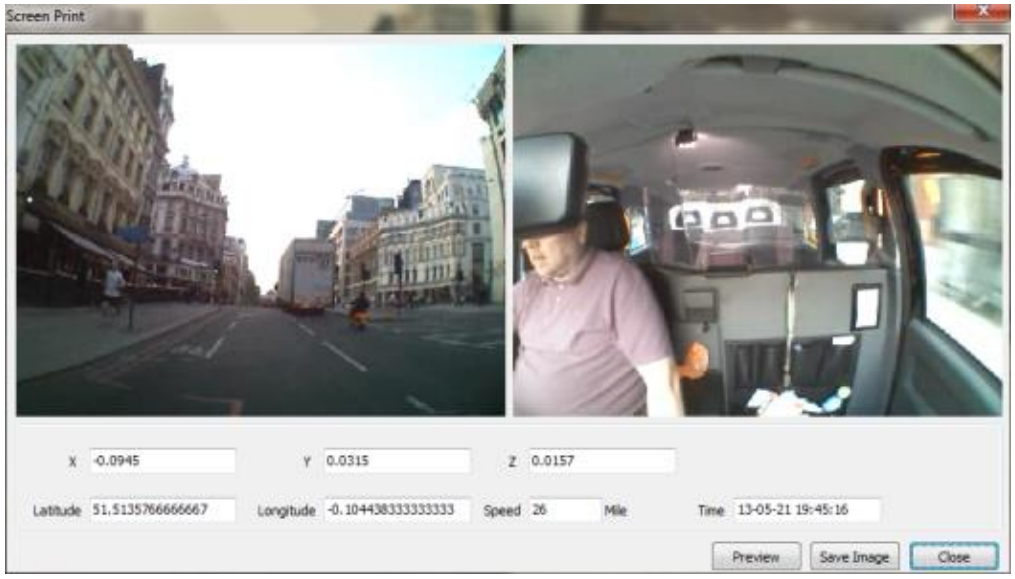
Screen Capture Print/Save

This function allows users to take screenshots of a incident or e.g. a number plate. The data can be easily be emailed as a detailed report along with location and G-Force data

26.1 Click on **Screen Print** to capture the picture.

Pro/SSL Silver software





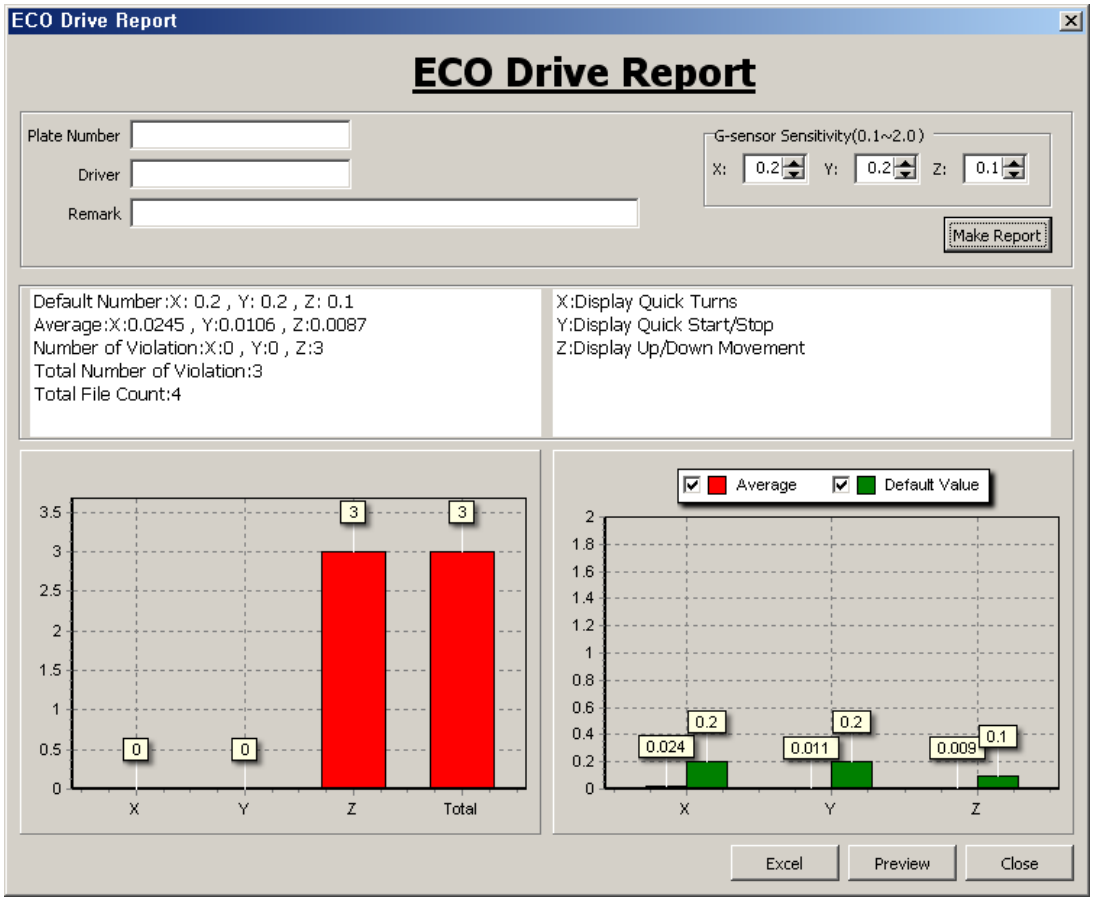
Pro/SSL Ruby software

27. PC Player – ECO Driver Report

ECO-Driver Report

This report can provide information on the drivers driving behavior and bad habits. It can advise on how good or bad a driver is by scoring the recorded data.

27.1 Import data from the SD card to the Search List screen.
(See page 16, 7.3 and 7.4)



27.2 Click on "Create DB".

27.3 When database complete, click on Data Print.

27.4 Input basic user information and click on "Make Report" to generate the drivers report.

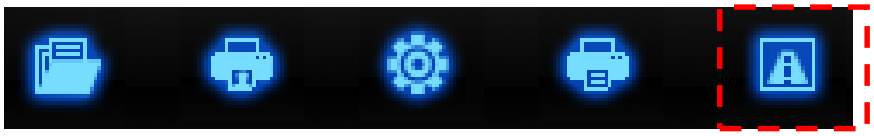
27.5 Click on "Excel" to create the report in Excel format.

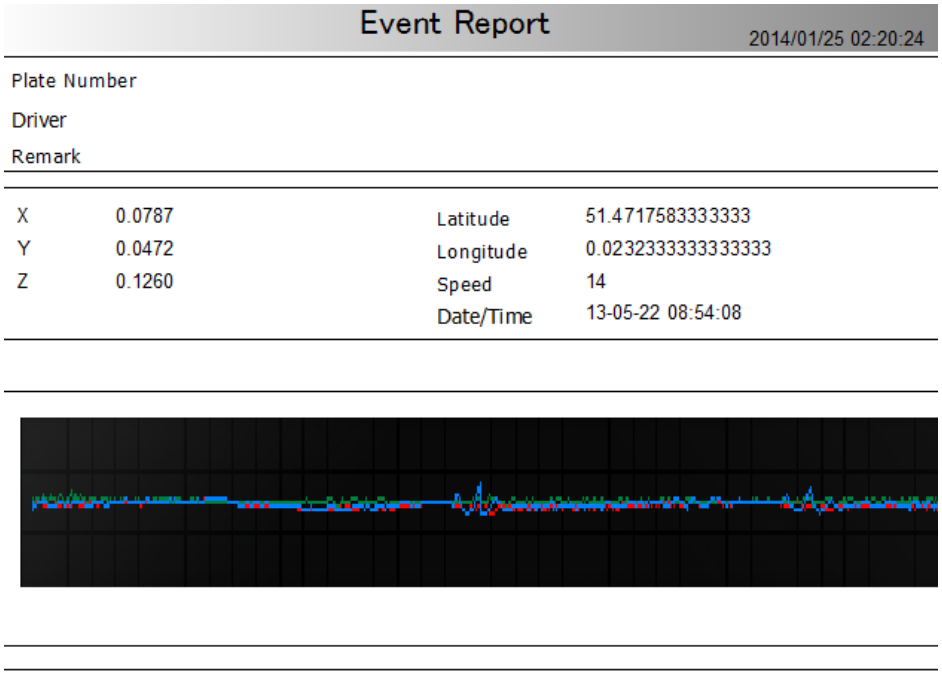
28. PC Player – Event Report

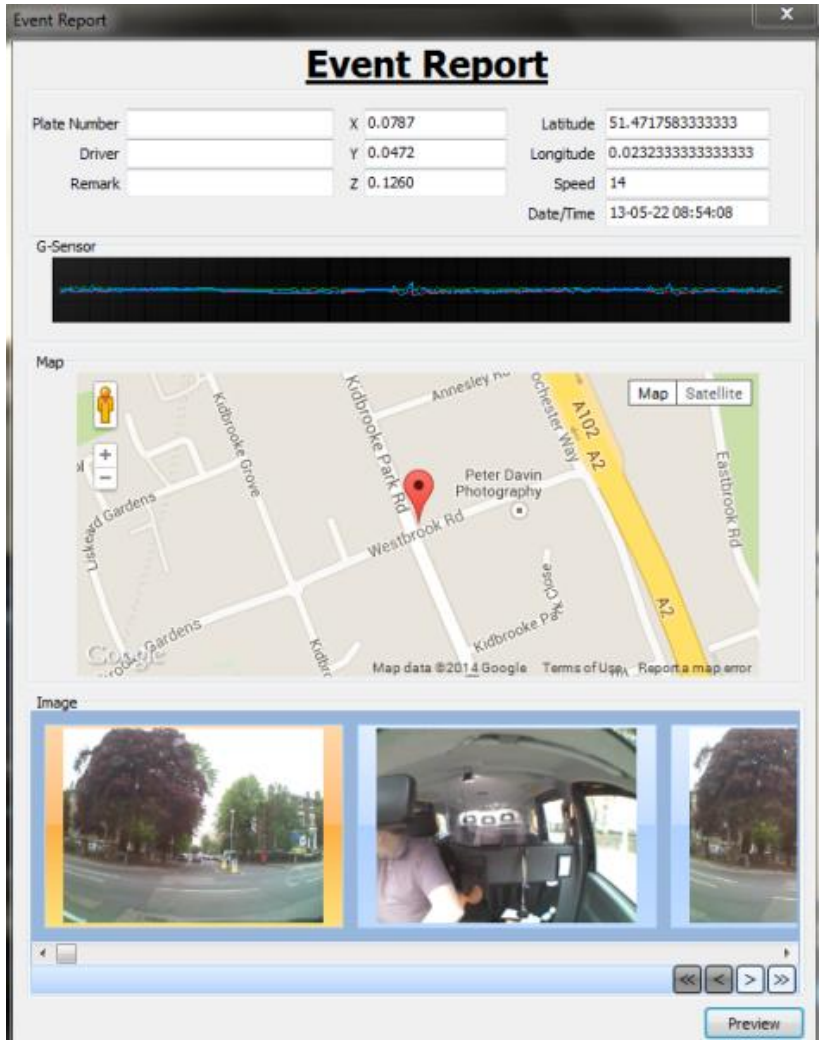
Create an Event Report

This function allow users to take 4 screenshots of the build up to the incident. The data can be easily be emailed as a detailed report along with location and G-Force data.

28.1 Click on “Event Report”







28.2 Click on the “Add” button to save 4 screenshots. Then click on the “Next” button.

28.3 Input basic information and click on “Preview” button to create the report.

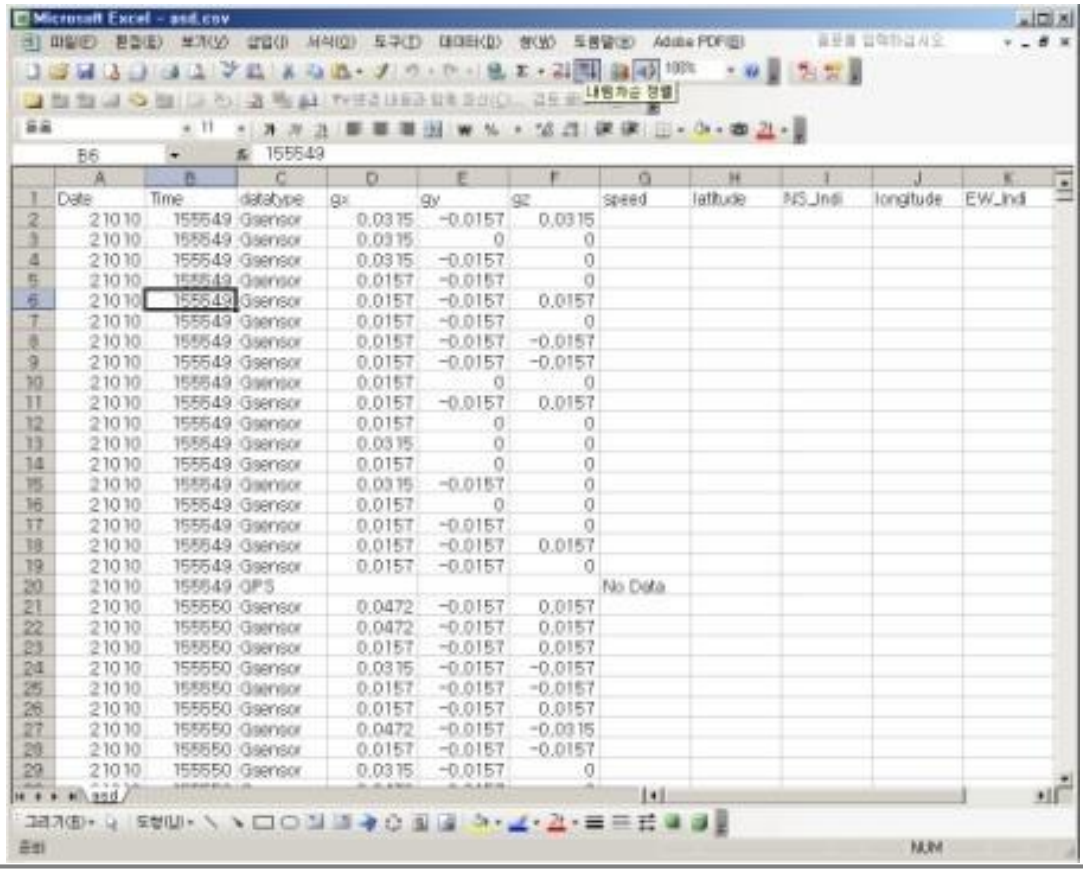
29. PC Player – GPS Data Report

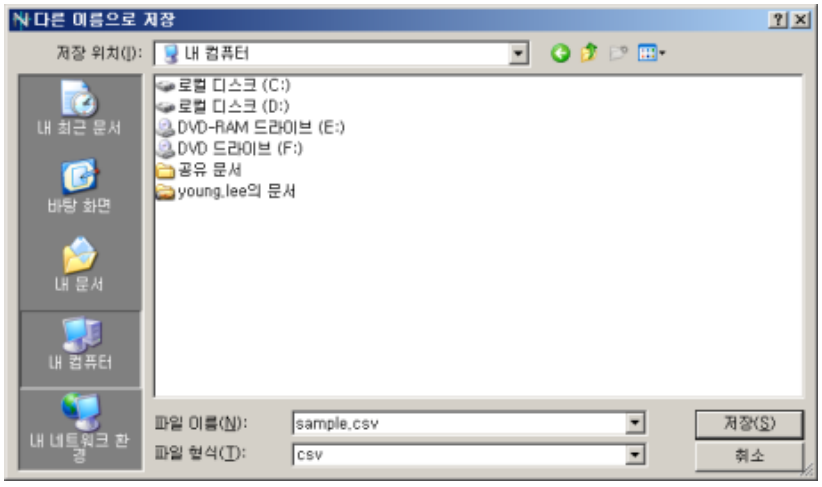
GPS and G-Sensor Data Export

This function will export the recorded GPS and G-Sensor shock data into Excel format.

29.1 Import data from the SD card to the Search List screen.
(See page 16, 7.3 and 7.4)

29.2 Click on “Create DB”.
29.3 Click on “Save Data”
29.4 Select location and save the CSV file.





30. Buzzer/LED Alert Warnings

Warning	LED Alert	Buzzer Alert
Booting Status	Red LED : On Blue LED : Flash for apprx 10secs Orange LED : Flash for apprx 10secs	“beep, beep” sound
SD Card Insert Status	Red LED : On Blue LED : Constant Flashing Orange LED : Constant Flashing	If SD card is not inserted: Constant “Beep” every second
GPS Reception Status	Red LED : On Blue LED : Flashing = searching for GPS On = GPS connected Orange LED : operate according to Mic status	–
Mic On/Off	Red LED : On Blue LED : Flashing Orange LED : On/off according to Mic status	Short “tic”
Constant Recording Status	Red LED : On Blue LED : Operate according to GPS status. Orange LED : Operate according to Mic status	–
Event/Manual Recording Status	Red LED : On Blue LED : Flash for 15secs Orange LED : Flash for 15secs	Short “tic-tic”
Event/Manual Recording Memory Full Alert	Red LED : On Blue LED : Operate according to GPS status Orange LED : Operate according to Mic status	80%:“Beep Beep Beep ~Beep Beep Beep” 100% : “Tee-lee-lee”
Power Off Status	Red LED : Off Blue LED : Off Orange LED : Off	“Beep~”

31. SD Card Recording Times

H = Hour / M = Minutes

Single Lens Cameras: Pro and SSL Silver	Select Q'ty	Best Quality (Default)	High Quality	Normal Quality	Compact Quality
	Frame/Sec.	20fps	17fps	30fps	20fps
	Pixel	VGA 640X480	VGA 640X480	VGA 640X480	QVGA 320X240
Memory Size	2GB	2H05M	2H15M	1H51M	5H33M
	4GB	4H10M	4H30M	3H42M	11H06M
	8GB	8H20M	8H40M	7H22M	22H12M
	16GB	16H40M	17H00M	14H44M	44H24M
	32GB	33H20M	33H40M	29H28M	88H48M

Dual Lens Cameras: Pro / SSL Ruby	Select Q'ty	Best Quality (Default)	High Quality	Normal Quality	Compact Quality
	Frame/Sec.	10fps/10fps	8.5fps/8.5fps	15fps/15fps	10fps/10fps
	Pixel	VGA 640X480	VGA 640X480	VGA 640X480	QVGA 320X240
Memory Size	2GB	2H05M	2H15M	1H51M	5H33M
	4GB	4H10M	4H30M	3H42M	11H06M
	8GB	8H20M	8H40M	7H22M	22H12M
	16GB	16H40M	17H00M	14H44M	44H24M
	32GB	33H20M	33H40M	29H28M	88H48M

32. Trouble Shooting

Problem	Solution
Camera has No Power	- Check the power cable connection to the camera. - Check the power switch on the camera. - Check the power cable connection to vehicle power source. - If all power connections are correct then remove SD Card, re-insert and turn the camera on. - If all the above solutions fail to correct the problem, please contact your dealer.
“Beep ~Beep” sound does not stop	- Check the SD card is correctly inserted. - Check data on the SD card. Event files folder is full. Back up any data required, format the SD card and continue to record. See page 16 for more info. (File System: FAT32, Allocation Size: 32 Kilobytes) - Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use. - If all the above solutions fail to correct the problem, please contact your dealer.
LED lights keeps Flashing	- Blue LED only – check vehicle position is not affecting GPS connection. - LED lights may flash if there is a problem with the SD Card. Save any Data required, format the SD card and. See page 15 for more info. (File System: FAT32, Allocation Size: 32 Kilobytes) - Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use. - If the above solutions fail to correct the problem, contact your dealer.

32. Trouble Shooting

Problem	Solution
Recorded clips do not play correctly	- Check the correct and latest PC Player version is being used. - Open a single clip by File Open button instead of Folder Open button. - If videos are too dark, please raise the brightness in the setting configuration - Back up any data required, format the SD card and continue to record. See page 15 for more info. (File System: FAT32, Allocation Size: 32 Kilobytes) - Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use. - If all the above solutions fail to correct the problem, please contact your dealer.
Recorded clips have no audio	- Verify that the mic switch is turned on; orange LED should be lit. - Check PC speakers are working and turned on. - Back up any data required, format the SD card and continue to record. See page 15 for more info. (File System: FAT32, Allocation Size: 32 Kilobytes) - Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use. - If all the above solutions fail to correct the problem, please contact your dealer.

32. Trouble Shooting

Problem	Solution
Event Recording doesn't function correctly	- Check event recording settings in the Novus PC Player setting menu. Sensitivity might be to low. Event recordings will not be triggered by small or minor impact. Press Manual button to trigger a Event recording. - Back up any data required, format the SD card and continue to record. See page 15 for more info. (File System: FAT32, Allocation Size: 32 Kilobytes) - Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use. - If all the above solutions fail to correct the problem, please contact your dealer.
GPS connection doesn't function correctly	- Check initial GPS installation has been completed inside the vehicle correctly accordingly to the manual. (See page 10 for more info) - Check/remove all possible metallic parts from the camera. - Check for heat elements, small metal zig zags lines throughout the front windscreen. HD model required for GPS connection. - Back up any data required, format the SD card and continue to record. See page 15 for more info. (File System: FAT32, Allocation Size: 32 Kilobytes) - Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use. - If all the above solutions fail to correct the problem, please contact your dealer.

See www.novusauto.com for more information

33. Specification and Accreditations

List	Description
Camera	1.3M Pixel CMOS Image Sensor
View-Angle	Front View: 120° view / Internal View: 149° view
GPS	Internal GPS
G-Sensor	Internal G-Sensor
Video	MPEG4 1.3M Pixel 20fps(max) at VGA(640x480) resolution MPEG4 300K Pixel 30fps(max) at VGA(640x480) resolution
Audio	Internal Mic, AAC Codec
Storage	SD Card (Max 32GB) (Class 10 only)
PC Viewer	Novus PC Player. (Windows Media Player, VLC, etc on specific Cameras only)
Voltage	12V~24V
Size	52(W) x 94(H) x 18(D)mm
Weight	85g
Certification	KCC / FCC / CE / RoHS Transport For London (SSL models only) FORS (SSL models only) See Novus website for more accreditations and approvals. www.novusauto.com

Please go to www.novusauto.com for further information

34. Warranty

Thank you for purchasing Novus product.

Product	VIEW-i		
Model			
Name		Serial Number	
Phone		Email	
Address			
Purchase Date		Dealer	

Guarantee

Attention: Novus will not be liable in any way in respect of:
1. The failure by the user of the device to drive safely and in accordance with all road traffic laws and regulations.
2. The failure by the user to maintain and level of maintenance of the camera or SD card.
3. Warranty: one year
4. Life time of SD Card: 6 months.

34. Warranty

ALL WARRANTIES, CONDITIONS AND OTHER TERMS IMPLIED BY STATUTE OR COMMON LAW (SAVE FOR CONDITIONS IMPLIED BY SECTION 12 OF THE SALE OF GOODS ACT1979) ARE TO THE FULLEST EXTENT PERMITTED BY LAW EXCLUDED FROM ANY CONTRACT BETWEEN US, PROVIDED THAT NOTHING EXCLUDES OR LIMITS OUR LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY OUR NEGLIGENCE OR FRAUDULENT MISREPRESENTATION.

NOVUS WILL NOT BE HELD LIABLE FOR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE (WHETHER FOR LOSS OR BUSINESS OR OTHERWISE) COSTS, EXPENSES OR OTHER CLAIMS, WHICH ARISE OUT OF OR IN CONNECTION WITH THE USE OF THE DEVICE.

Screens and pictures may be different in product use

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